

6/16
CALFED

1997 Plan for Spring/Winter Actions

June 17, 1997 Update

This operation includes export reductions and the actions that are being planned to recover them. It includes reduction of Shasta releases in January through March, reduction of Oroville releases in January and February, relaxation of export/inflow ratio, and relaxation of ag water quality standards. USBR recovery in September and October requires SWRCB approval of CVP pumping at the SWP facilities (joint point of diversion). This operation intends to totally recover export impacts. Should conditions change, CALFED will evaluate other measures to achieve the objectives. October through March are based on lower quartile hydrology; actual hydrology will likely be different resulting in water recovery somewhat different than that shown.

	APR 15-30	MAY 1-14	MAY 15-31	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN ¹	FEB ¹	MAR ¹	Impact Summary	
Vernalis (CFS)	5220	5410	4000											Exports	Storage
Exports (CFS)	2170	2270	3750												
Export Impacts (TAF)	-81	-58	-4	-10 ⁴											
Export recovery (TAF)				+37 ²	+5 ⁶		+73	+20	+18 ³					+153	
Shasta storage withdrawal (TAF)				-7 ⁵			-70	-5							-82
Shasta storage recovery (TAF)											+27	+27	+28	+82	
Oroville storage withdrawal (TAF)				-27 ⁵			-3	-15						-45	
Oroville storage recovery (TAF)						+15 ⁷					+15	+15		+45	
Total														0	0
Cumulative Impacts (TAF)	-81	-139	-143	-150	-145	-130	-130	-130	-112	-112	-70	-28	0		

This operation is being conducted with the understanding it will accomplish sufficient recovery to assure the total storage in San Luis Reservoir does not fall below 150,000 acre-feet. The USBR and DWR are pursuing actions to reduce the likelihood of a San Luis lowpoint problem

- ¹ Storage recovery may require relaxation of minimum instream flow requirements in the Feather River. Oroville's Jan and Feb releases could be decreased about 250 cfs. Shasta's (Keswick's) Jan-Mar release could be decreased 500 cfs to an objective flow of 3750 cfs. Minimum instream flow requirement adjustments may not be required if hydrology is wetter than assumed herein.
- ² Export recovery adjustment of export/inflow ratio up to 40% for an export recovery of about 37 taf. Adjustments will be based on Delta Smelt salvage and distribution, and water quality conditions in coordination with DFG, USFWS, USBR, DWR. Water quality standards still apply and are controlling.
- ³ Export recovery requires relaxation of biological opinion outflow requirement in November (from 4500 to 4200 cfs).
- ⁴ Export reduction of 1000 cfs for 5 days for smelt protection.
- ⁵ Additional storage withdrawal required to take advantage of the increased E/I ratio.
- ⁶ Relaxed Ag water quality standard allows a minor increase in exports.
- ⁷ Relaxed Ag water quality standard conserves upstream storage in August, which is then released in October to support exports.